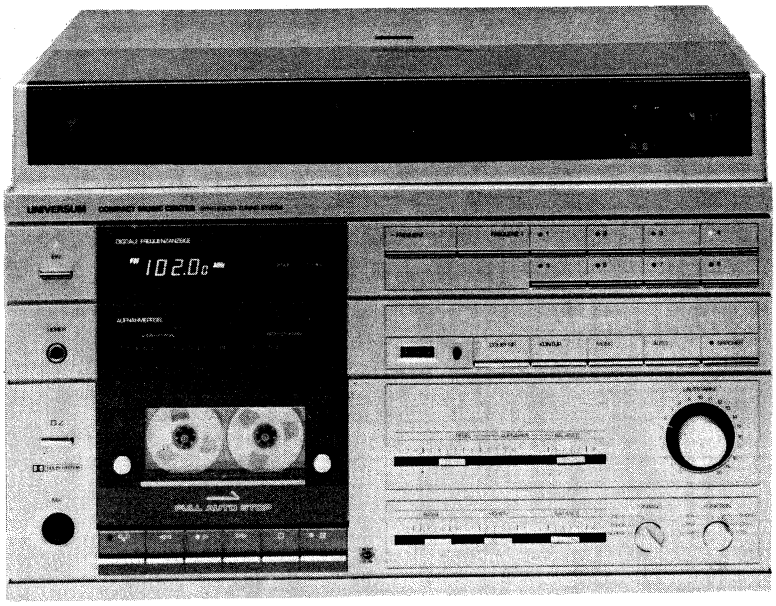
Quelle INTERNATIONAL

Technischer Kundendienst

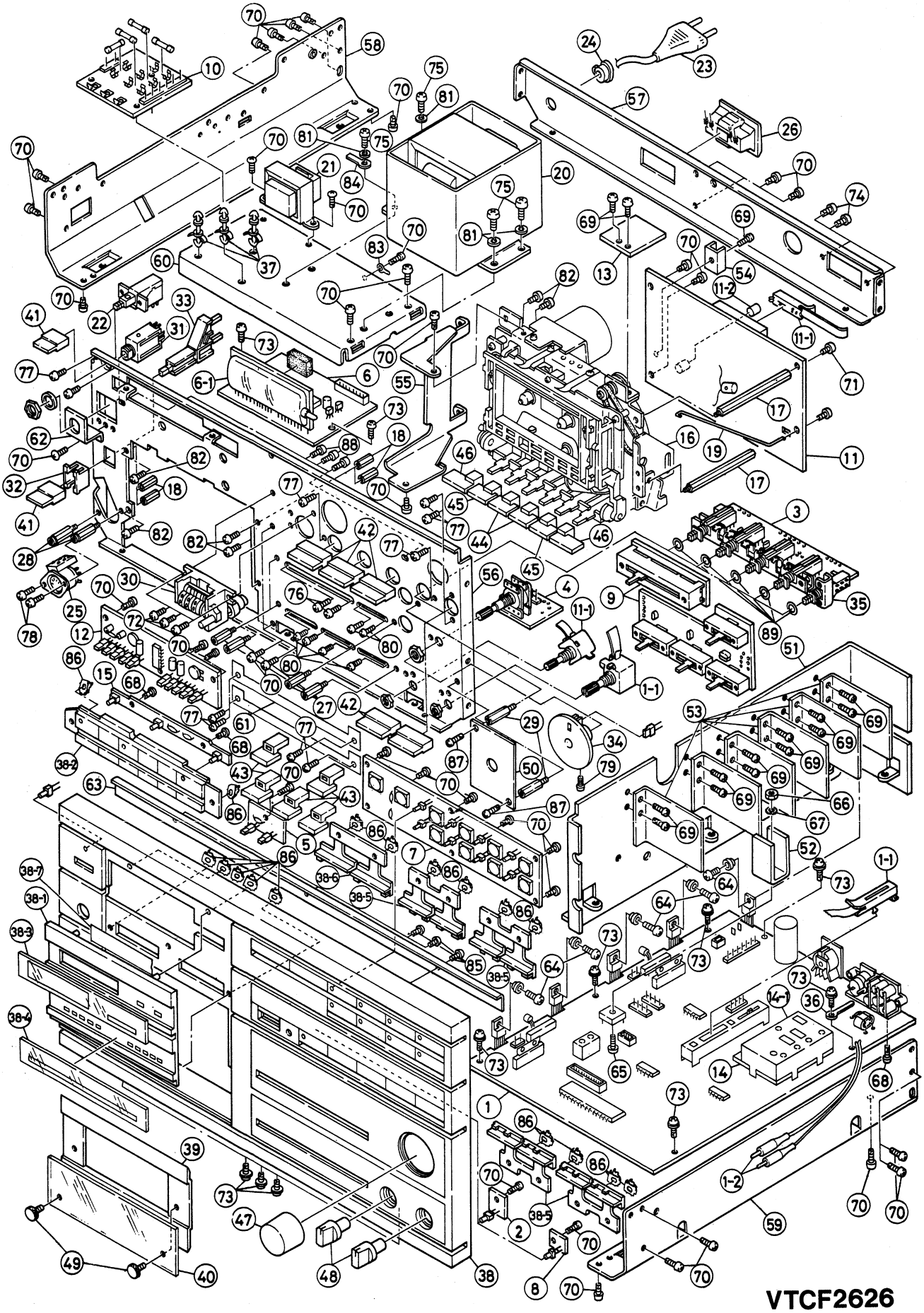
011.2110



BESTELL-NR.	0112110
GERAETEBEZEICHNUNG	UNIV.-MUSIK-CENTER
WARENGATTUNG	652
AUSFUEHRUNGS-NR.	001
GERAETEBESCHREIBUNG	DIGITALE FREQUENZANZEIGE
PRIVILEG	VTCF 2626
LIEFERANTEN-NR.	228147
PREIS	998.00
KATALOG	824
GARANTIEZEIT	6
KD-SEKTOR	R
HEIM/BRINGE	WERKSTATT
BETREUUNG	EIGEN
KOSTENTRAEGER	EIGEN
REPARATURFAEHIG	JA

Nachdruck nicht gestattet
Änderungen vorbehalten

Bei allen Reparaturen sind die gültigen Sicherheitsvorschriften zu beachten!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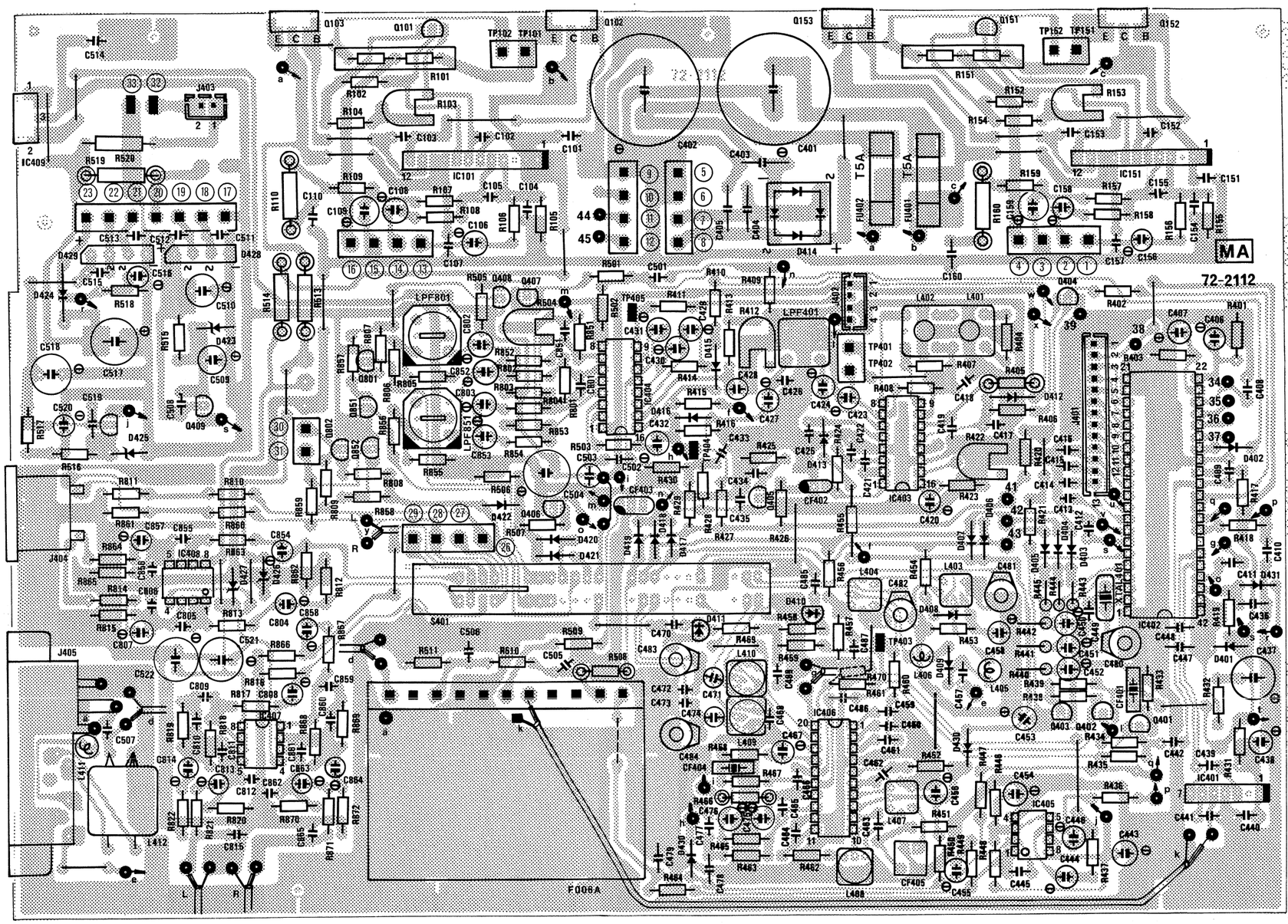
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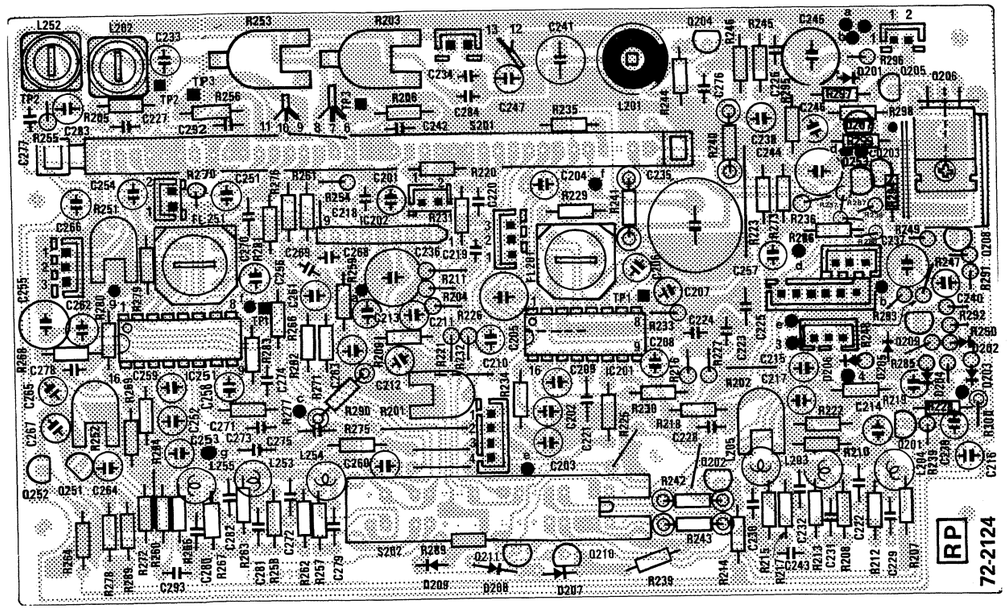
F008A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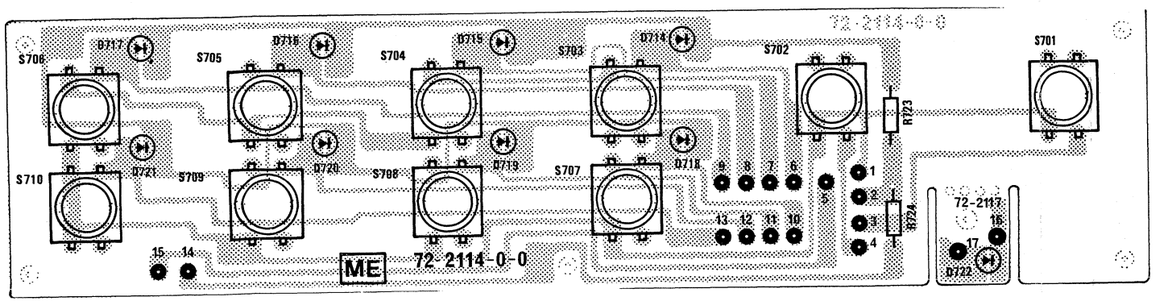
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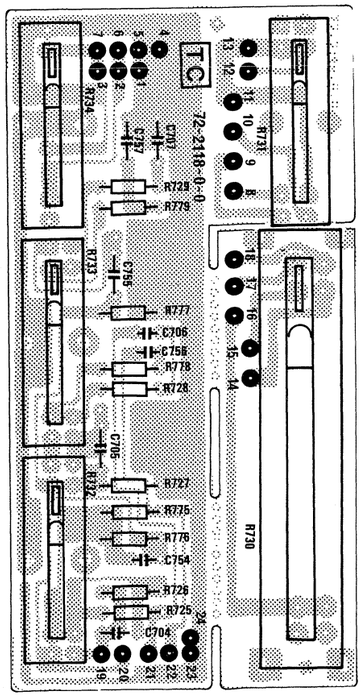
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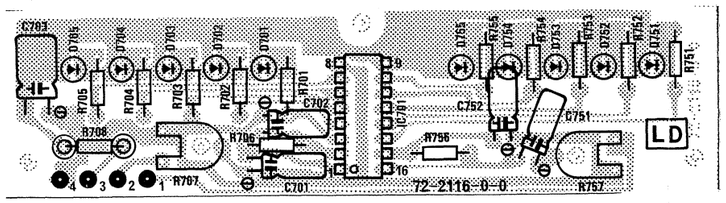
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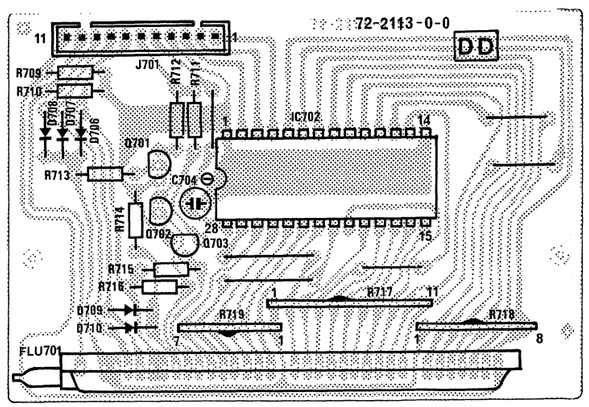
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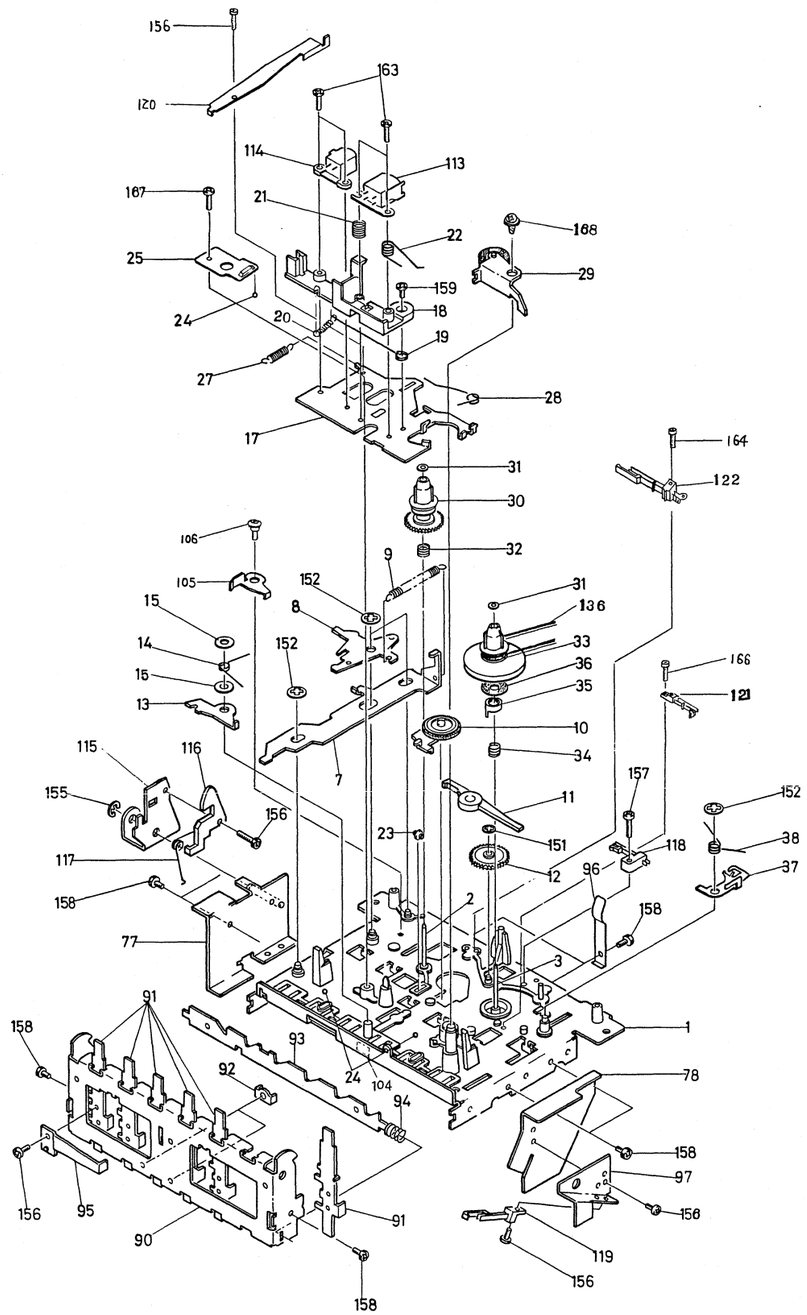
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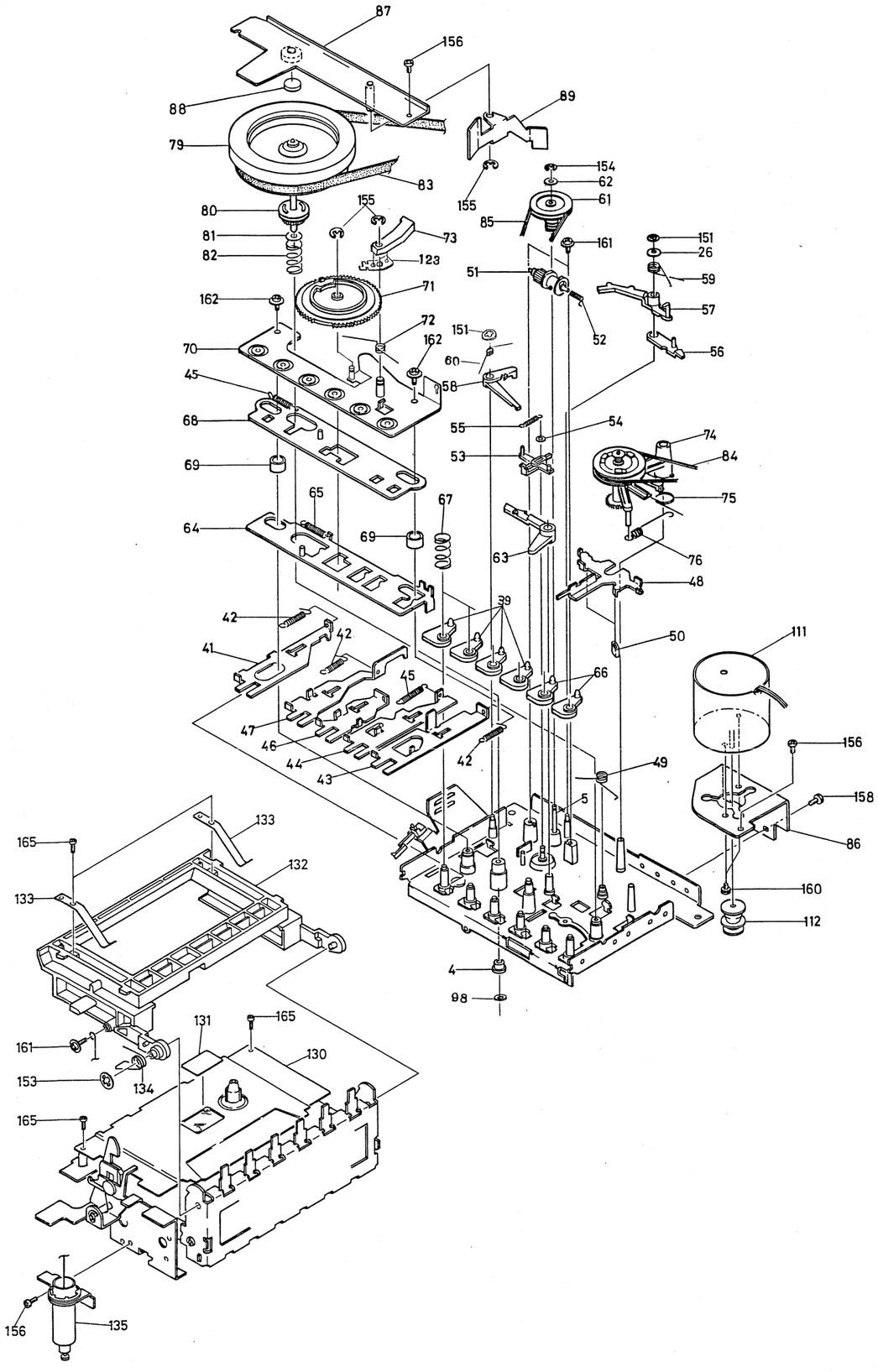
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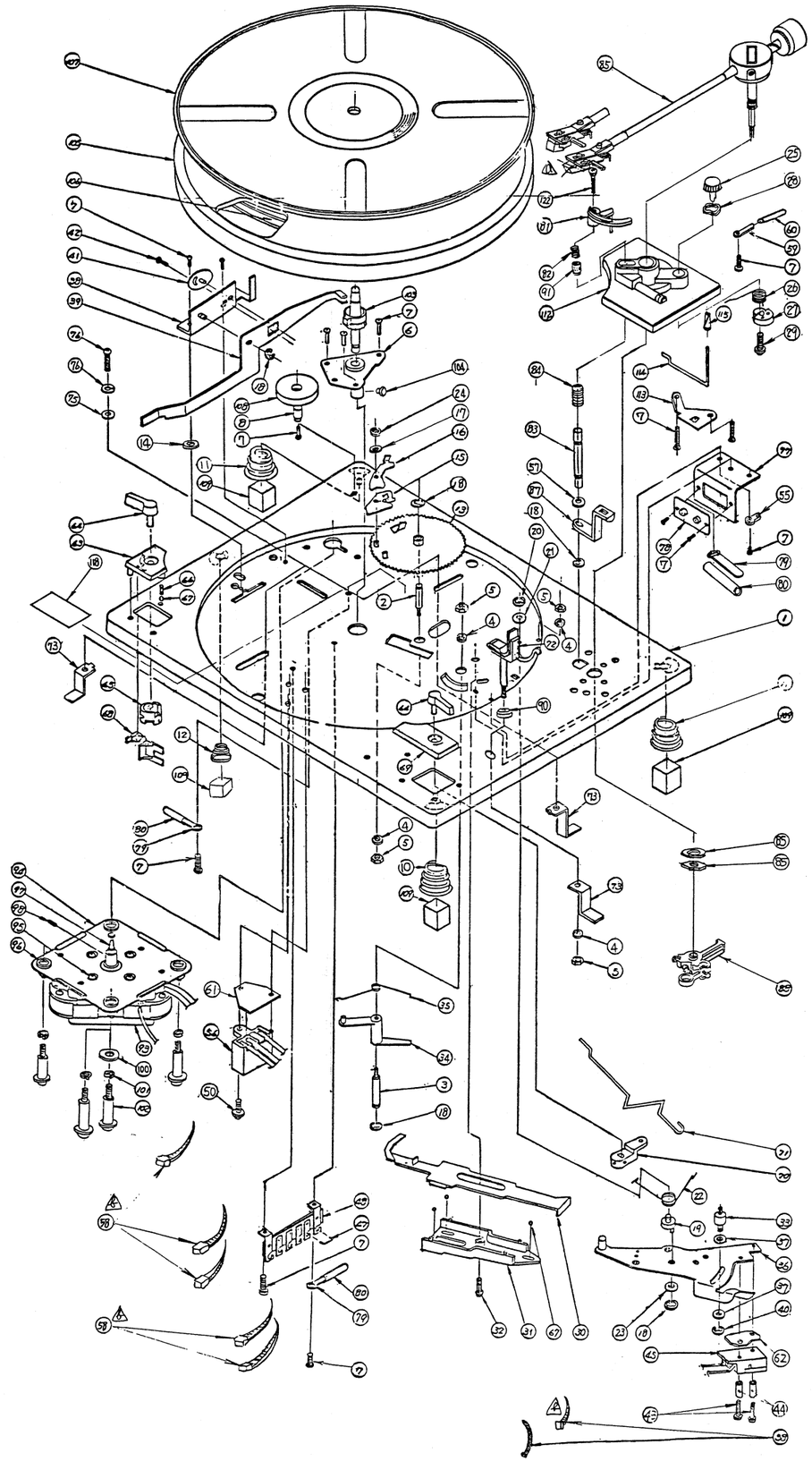


UNIVERSUM Model VTCF 2626

1. Alignment of Synthesizer

1. Alignment of PLL Standard Frequency:
   1) Set the display of frequency to "100.0 MHz".
   2) Connect frequency counter to the output terminal of OSC Buffer at FM Front-End and adjust C-480 so that the display becomes 110.7 MHz $<$ ±5 KHz.

2. Alignment of AM

1. Alignment of AM-I F:
   1) Connect IF Sweep Generator (f_0 = 450 KHz) to AM-Ext Antenna Terminal.
   2) Connect the input of Scope to Pin-13 of IC-406 (TP-410).
   3) Adjust the output of Sweep Generator so that the width of output wave may not saturate, and also adjust L-407 and L-408 repeatedly so that the same width of output wave becomes maximum and symmetical.
2. Alignement of MW-OSC (Antenna Input not necessary):
   1) Connect DC Voltage Meter to TP-403.
   2) Set the display of frequency to 522 KHz and adjust L-409 so that the indication of Voltage Meter becomes 2.0 V $<$ ±0.1 V.
   3) Set the display of frequency to 1611 KHz and adjust C-484 so that the indication of Voltage Meter becomes 24.0 $<$ ±0.2 V.
   4) Repeat the adjustment of above 2) and 3) until the error becomes minimum.
3. Alignment of MW Tracking:
   1) Receive the signal of 603 KHz and adjust L-404 so that AF output becomes maximum.
   2) Receive the signal of 1403 KHz and adjust C-482 so that AF output becomes maximum.
   3) Repeat the adjustment of above 1) and 2) until the error becomes minimum.
4. Alignment of LW-OSC (Antenna Input not necessary):
   1) Connect DC Voltage Meter to TP-403.
   2) Set the display of frequency to 153 KHz and adjust L-410 so that the indication of Voltage Meter becomes 2.0 V $<$ ±0.1 V.
   3) Set the display of frequency to 360 KHz and adjust C-483 so that the indication of Voltage Meter becomes 20.0 V $<$ ±0.2 V.
   4) Repeat the adjustment of above 2) and 3) until the error becomes minimum.
5. Alignment of LW Tracking:
   1) Receive the signal of 160 KHz and adjust L-403 so that AF output becomes maximum.
   2) Receive the signal of 320 KHz and adjust C-481 so that AF output becomes maximum.
   3) Repeat the adjustment of above 1) and 2) until the error becomes minimum.

3. Alignment of FM

1. Alignment of IF:
   1) Receive Standard Signal (98 MHz).
   2) Adjust L-402 so that the offset voltage at TP-401 ~ TP-402 becomes 0 V $<$ ±50 mV.
   3) Adjust L-401 and L105 (FM Front-End) so that the distortion of AF output becomes minimum.
   4) Repeat the adjustment of above 2) and 3) until the error becomes minimum.
2. Alignment of FM-OSC (Antenna Input not necessary):
   1) Connect DC Voltage Meter to the TV terminal at FM Front-End.
   2) Set the display of frequency to 87.5 MHz and adjust L-106 so that the indication of Voltage Meter becomes 4.8 V $<$ ±0.1 V.
   3) Set the display of frequency to 108.0 MHz and adjust C-129 so that the indication of Voltage Meter becomes 21.0 V $<$ ±0.2 V.
   4) Repeat the adjustment of above 2) and 3) until the error becomes minimum.
3. Alignment of FM Tracking:
   1) Receive the signal of 90 MHz and adjust L-101/L-102/L-103 so that the AF output becomes maximum.
   2) Receive the signal of 106 MHz and adjust C-126/C-127/C-128 so that the AF output becomes maximum.
   3) Repeat the adjustment of above 1) and 2) until the error becomes minimum.
4. Alignment of Stereo Decoder:
   1) Connect Frequency Counter to TP-405 keeping Connector J-402 open.
   2) Receive non-modulation-carrier and adjust R-412 so that the display of frequency counter 19 KHz $<$ ±100 Hz.
   3) Set the modulation to L or R and adjust R-504 so that the separation becomes $>$ 40 dB, keeping the difference of the separation of both channels less than 6 dB.
   4) Adjust R-422 so that the stereo indicator becomes lit at antenna input 14 dBμ $<$ ±1 dB.

4. Alignment of Main Amplifier

1. Alignment of Idling Current:
   1) Adjust R-103 (R-153) so that the voltage at TP-101 ~ TP-102 (TP-151 ~ TP-152) becomes 12 mV $<$ ±1 mV after one minute of switching-on at volume minimum or load terminal open. (about 25 mA $<$ ±2 mA)

1. Rec/PB Head Azimuth adjustment
   Using the tape for the azimuth adjustment, adjust the head angle screw so that the output level of playback becomes maximum. In case of the maximum point of both channel being different, set it for the center point of the maximum level of both channels.

2. Playback Output Level Adjustment
   Using the tape for the playback output level adjustment (Dolby level = 200 nwb/m), adjust R201 and R251, so that the PIN point Nos. 1 become 580 mV.

3. Level Meter Adjustment
   Adjust the recording level volume R707 and R757 with Mic. input of signal 1 mV/K-ohm 400 Hz for recording, until the red LED lamp for +3 dB goes off with the level of PIN Nos. 1 at 580 mV.

4. Bias Trap Adjustment
   Adjust the bias trap coil so that the level of PIN Nos. 2 gets minimum.

5. Adjustment of Bias and Record Current
   After the adjustment done as above item-3 and 4, step down the input signal by 25 dB, and then adjust R202 and R252, so that the level of PIN Nos. 1 gets same both for recording and playback operations. At the same time, set the frequency at 12.5 KHz, and adjust R203 and R253, so that the difference between 400 Hz and 12.5 KHz may become within 2.5 dB.

VR INDICATE PLATE

POWER LED

PIN PLUG

HEAD PHONES

MAIN UNIT (J009A)

SPEICHER SWITCH

VOLUME CONTROL UNIT (C013A)

PUSH SW UNIT (S073A)

DOLBY DISPLAY UNIT (M093A)

MEMORY SWITCH UNIT (S074A)

CASSETTE MECHANISM

SPEAKERS SOCKET

POWER TRANSFORMER 23-1303-0-0

AC INPUT

POWER UNIT (P018A)

POWER TRANSFORMER 23-1304-0-0

RECORDING PLAY BACK AMP UNIT (R025A)

FREQUENCY DISPLAY UNIT (M095A)

INPUT SOCKET

INDICATOR UNIT (M094A)

TONE CONTROL UNIT (C012A)

LED LEVEL METER UNIT (M096A)

LED DISPLAY UNIT (M097A)

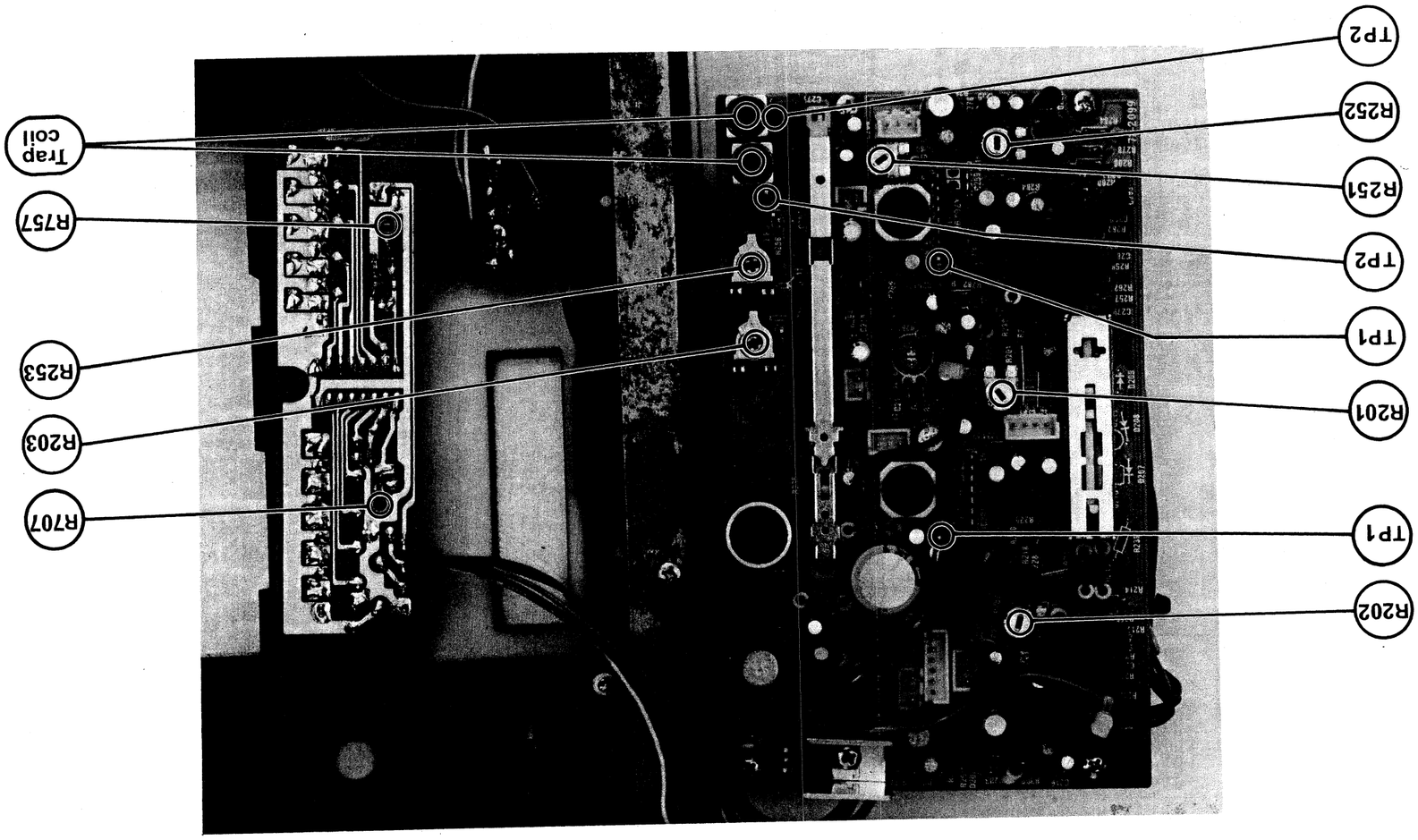
POWER SWITCH

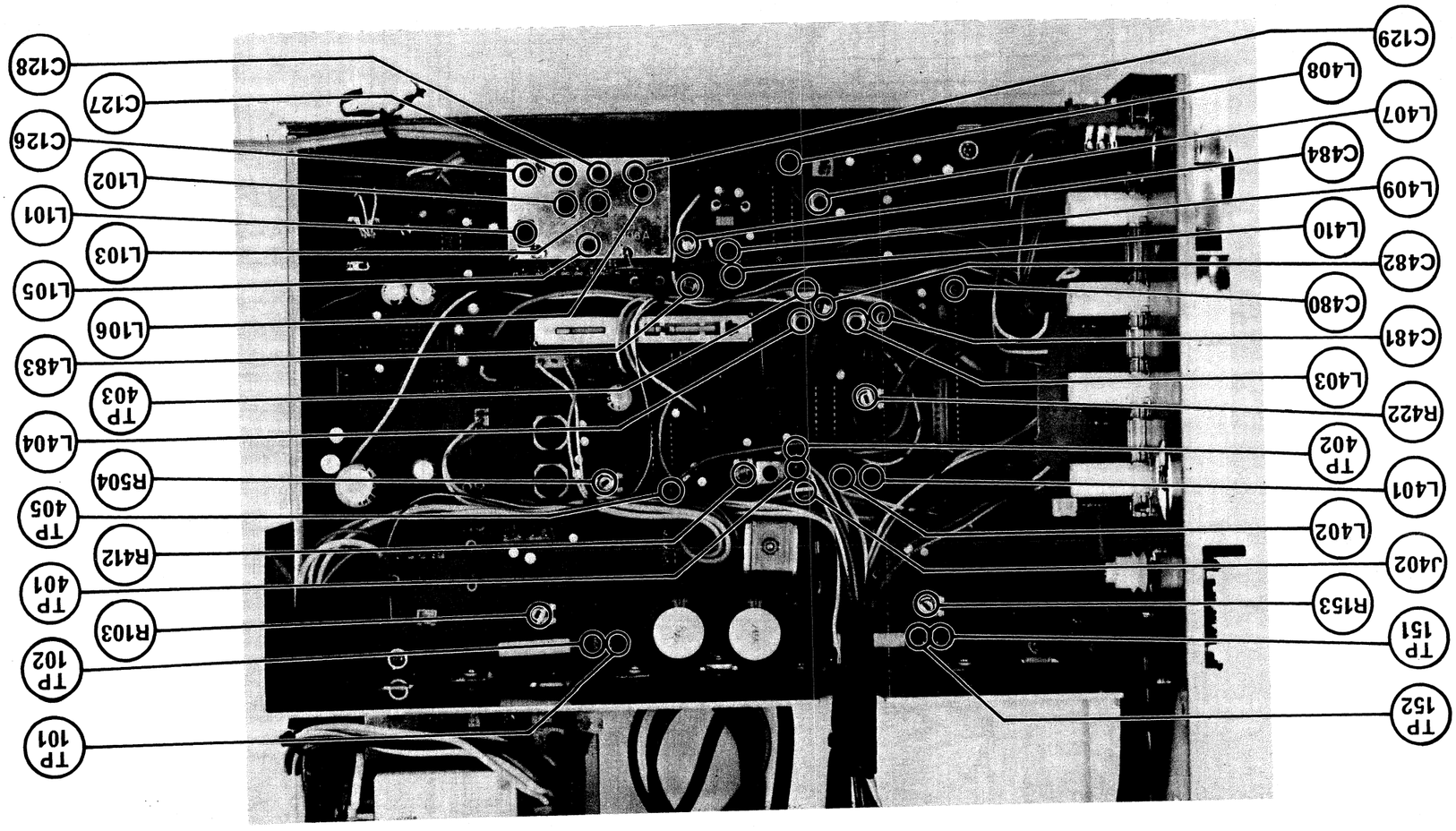
UNIVERSUM

Compact Music Center VTCF 2626

Bestellnummer 011.211 0

Quelle INTERNATIONAL


TP2
R252
R251
TP2
TP1
R201
TP1
R202
Trap coil
R757
R253
R203
R707


C129
L408
L407
C484
L409
L410
C482
C480
C481
L403
R422
TP 402
L401
L402
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TP 151
TP 152
C128
C127
C126
L102
L101
L103
L105
L106
L483
TP 403
L404
R504
TP 405
R412
TP 401
R103
TP 102
TP 101

ZEILE	POSITION	SYM	BEZEICHNUNG	ET-NUMMER
1				
2		A	ABDECKHAUBE 397X325X70 MM	985 528 9
3		A	SCHARNIER	985 523 0
4				
5			GEHAEUSE UND BEDIENTEILE :	
6				
7			FM-WURFANTENNE 75 OHM-ANSCHLUSS	965 604 2
8		A	GEHAEUSE	985 524 8
9			GUMMIFUSS	949 055 8
10	38	A	FRONTBLENDE	985 505 7
11	86	A	METALLKLAMMER	985 527 0
12	38-1	A	ABDECKUNG FUER DISPLAY BRAUN	985 525 5
13	38-2	A	ABDECKUNG FUER CASS.-KNOPF	985 526 3
14	38-3	A	KLARSICHTSCHEIBE FUER DISPAY	985 507 3
15	38-4	A	KLARSICHSCHEIBE FUER L/R KANAL	985 508 1
16	38-7	A	LICHTBLENDE FUER DISPAY GRUEN	985 522 2
17	50	A	STRICHSKALA FUER LAUTSTAERKE	985 521 4
18	41	A	KNOPF EIN/AUS-CASSETTENAUSWURF	985 510 7
19	38-5	A	KNOPF AM-FM 1-8	985 511 5
20	38-6	A	KNOPF FREQUENZ	985 512 3
21	42	A	KNOPF DOLBY - SPEICHER	985 513 1
22	43	A	KNOPF FUER SCHIEBEREGLER	985 514 9
23	47	A	KNOPF LAUTSTAERKE	985 518 0
24	48	A	KNOPF BANDART-FUNKTION	985 519 8
25	44	A	KNOPF PLAY-SCHNELLVORLAUF	985 515 6
26	45	A	KNOPF STOP-RUECKLAUF	985 516 4
27	46	A	KNOPF AUFNAHME-PAUSE	985 517 2
28				
29			ELEKTRISCHE TEILE RDF :	
30				
31			ANTENNENBUCHSE,KOMBI 300/75 OHM	968 089 3
32	J801		KOPFHOERERBUCHSE	951 488 6
33	J802		MIKROFONBUCHSE	951 865 5
34	J803		LAUTSPRECHER-BUCHSE	951 686 5
35	J404		DIN-BUCHSE 5-POLIG	951 688 1
36				
37		A	UKW-TEIL KPL.	985 447 2
38	Q101		TRANSISTOR 3 SK 85	985 448 0
39	Q102		TRANSISTOR 2 SC 668	175 452 2
40	Q103		TRANSISTOR 2 SC 930 D	175 717 8
41	Q104		TRANSISTOR 2 SK 168 D	953 914 9
42	D101-104		CAP.-DIODE 1 SV 68	985 449 8
43				
44	T801		NETZTRAFO 23-1303-0-0	985 501 6
45	T802		NETZTRAFO 23-1304-0-0	985 502 4
46	C401,402		ELKO 6800 UF/35V	985 723 6
47	S401		BEREICHSUMSCHALTER MIT SCALTBAND	985 472 0
48	S601		TASTENSATZ 4-FACH	985 477 9
49	S602		SCHIEBESCHALTER 1-FACH SPEICHER	985 504 0
50	S702-710		KURZHUBTASTSCHALTER	985 481 1
51	S801		NETZSCHALTER	967 461 5
52	R101		WIDERSTAND 2X0.47 OHM	952 764 9
53	R609		DREHPOTI 2X100 KA LAUTSTAERKE	985 478 7
54	R717		WIDERSTANDSBLOCK 10X33 K	985 490 2
55	R718		WIDERSTANDSBLOCK 7X33 K	985 530 5
56	R719		WIDERSTANDSBLOCK 6X33 K	985 529 7
57	R732,733		SCHIEBEREGER 50 KC BASSTHOEHE	985 482 9
58	R734		SCHIEBEREGLER 100 KG BALANCE	985 485 2
59	FLU701		DISPLAY FIP 7A8S	985 479 5
60	JC101,151		INTEGRIERTE SCHALTUNG UPC 1225 H	985 453 0
61	IC401		INTEGRIERTE SCHALTUNG TD 6104 P	985 454 8
62	IC402		INTEGRIERTE SCHALTUNG TC 9147 P	985 450 6
63	IC403		INTEGRIERTE SCHALTUNG LA 1235	985 451 4
64	IC404		INTEGRIERTE SCHALTUNG UPC 1235 C	985 452 2
65	-IC405		INTEGRIERTE SCHALTUNG TL 4558P	968 094 3
66	IC406		INTEGRIERTE SCHALTUNG LA 1245	968 080 2
67	IC407,408		INTEGRIERTE SCHALTUNG NJM 4558 D	950 628 8
68	IC409		INTEGRIERTE SCHALTUNG NJM 78M12	985 474 6
69	IC702		INTEGRIERTE SCHALTUNG TD 6301 AP	985 480 3
70	D401-409		DIODE 1 S 1588	947 093 1
71	D410,411		CAP.-DIODE FC 66M PAAR	985 456 3
72	D414		BRUECKENGLEICHRICHTER M4C-31	947 714 2
73	D423		ZENERDIODE WZ 063	929 322 6
74	D424		GLEICHRICHTER SRIK-2	176 045 3
75	D425		Z-DIODE WZ-320	985 473 8
76	D426,427		ZENER-DIODE WZ 162	948 761 2
77	D428,429		DIODE 1B4B41	947 337 2
78	D601		LED-DIODE ROT LN 224	951 645 1
79	D602		LED-DIODE GRUEN LN 324	951 647 7
80	D603		LED LN 322 GP	985 476 1
81	D714-722		LED LN 222 RP	953 958 6
82	Q101,401		TRANSISTOR 2 SC 1815 GR	947 335 6

ZEILE	POSITION	SYM	BEZEICHNUNG	ET-NUMMER
83	Q102		TRANSISTOR 2 SD 613	957 142 3
84	Q103		TRANSISTOR 2 SB 633	957 143 1
85	Q402,403		TRANSISTOR 2 SA 1015	949 017 8
86	Q405		TRANSISTOR 2 SC 380	175 437 3
87	Q409		TRANSISTOR 2 SC 1384	949 240 6
88	Q801,851		TRANSISTOR 2 SC 2878	985 455 5
89	CF401,404		AM-KERAMIK-FILTER	985 467 0
90	CF402,403		FM-KERAMIK-FILTER	985 468 8
91	CF405		AM-KERAMIK-FILTER	985 475 3
92	L401		FM-ZF-FILTER	985 466 2
93	L403		LW-ANTENNENSPULE	985 460 5
94	L404		MW-ANTENNENSPULE 220 UH	985 459 7
95	L405		SPULE 3,3 MH	949 388 3
96	L406		SPULE 220 UH	967 543 0
97	L407		AM-ZF-FILTER 450 KHZ	985 458 9
98	L408		AM-ZF-FILTER 455 KHZ	985 457 1
99	L409		MW-OSZILLATORSPULE 120 UH	985 462 1
100	L410		LW-OSZILLATORSPULE	985 463 9
101	L411		DROSSEL 2,2 UH	949 318 0
102	L412		BALUNSPULE	985 464 7
103	LPF401		DROSSEL	985 461 3
104	LPF801 851		38 KHZ-FILTER	985 465 4
105	XT401		QUARZ HC-18V 7.2 MHZ	985 471 2
106	C480		TRIMMER-CONDENSATOR 20 PF	985 469 6
107	C481		TRIMMER CONDENSATOR 50 PF	985 470 4
108	C482		TRIMM-KONDENSATOR 10 PF	949 267 9
109	C483		TRIMM-KONDENSATOR 30 PF	949 268 7
110				
111			ELEKTRISCHE TEILE TB :	
112				
113	SW201		SCHIEBESCHALTER BANDART	985 491 0
114	SW202		A/W-SCHIEBESCHALTER MIT SCHALTB.	985 492 8
115	R201		TRIMMPOTENTIOMETER 20 K OHM	949 025 1
116	R202		TRIMMPOTENTIOMETER 10 K OHM	951 859 8
117	R203,253		TRIMMPOTENTIOMETER 100 K OHM	949 390 9
118	R730,PEGEL		SCHIEBEREGLER 20 K-15A AUFNAHME	985 484 5
119	R731,BAL.		SCHIEBEREGLER 20 KB AUFN.BALANCE	985 483 7
120	L201		LOSCHOSZILLATORSPULE 85 KHZ	985 493 6
121	L202		DROSSEL 7.5 MH	985 494 4
122	L203		DROSSEL 3.3 MH	985 495 1
123	L204		DROSSEL 4,7 MH	985 496 9
124	L205		DROSSEL 5.6 MH	985 497 7
125	FL201		FILTER	985 498 5
126	IC201		INTEGRIERTE SCHALTUNG TA 7629 P	985 327 6
127	IC202		INTEGRIERTE SCHALTUNG TA 7325 P	985 488 6
128	IC301		INTEGRIERTE SCHALTUNG TA 7666 P	985 486 0
129	D201		Z-DIODE WZ-061	985 489 4
130	D202-205		DIODE 1 S 1588	947 093 1
131	D206		DIODE 1 S 446	949 256 2
132	D301,302		LED-DIODE ROT LN 224	951 645 1
133	D303-305		LED-DIODE GRUEN LN 324	951 647 7
134	D711,713		LED LN 222 RP	953 958 6
135	D712		LED LN 322 GP	985 476 1
136	Q201-203		TRANSISTOR 2 SC 16850	924 671 1
137	Q204		TRANSISTOR BD 373 D	951 626 1
138	Q205,209		TRANSISTOR 2 SC 16850	924 671 1
139	Q206		TRANSISTOR 2 SB,434	968 104 0
140	Q207,208		TRANSISTOR 2 SA 564	175 845 7
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143			FRONT LOADING :	
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145	32	A	HALTEBLECH F.CASS.-AUSWURFHEBEL	967 498 7
146	33	A	AUSWURFHEBEL	967 499 5
147				
148		A 1	LAUFWERK KPL.	
149	39		CASSETTENDECKEL	985 506 5
150	40		KLARSICHTSCHEIBE FUER CASS,DECK.	985 509 9
151	49	A	SCHRAUBE FUER CASS.-DECKEL	985 520 6
152	19	A	A/W-SCHALTSTANGE	985 500 8
153	30		ZAEHLWERK	985 503 2
154				
155	10		ZWISCHENRADEINHEIT	968 150 3
156	11		PAUSEHEBEL	968 287 3
157	12		ZAHNRAD	968 151 1
158	17		KOPFTRAEGERPLATTE	968 125 5
159	18		KOPFTRAEGER	968 288 1
160	19	A	PROFIL-FEDER	985 416 7
161	20	A	PROFIL-FEDER	985 417 5
162	22		FEDER,GA-ROLLE	968 152 9
163	23		FUERHRUNGSROLLE	968 291 5
164	24	A	STAHLKUGEL 2MM	121 664 7
165	28		PROFILFEDER	968 292 3
166	29		GA-ROLLE KOMPL.	968 153 7
167	30		ABWICKELTELLER	968 154 5
168	33		AUFWICKELTELLER	985 418 3

ZEILE	POSITION	SYM	BEZEICHNUNG	ET-NUMMER
169	35		MITNEHMER	968 293 1
170	36		SCHEIBE	968 294 9
171	37		RASTHEBEL,PAUSE	968 295 6
172	38		PROFILFEDER	968 296 4
173	39		SCHALTSCHIEBER	968 297 2
174	41		SCHIEBER,PAUSE	968 298 0
175	43		SCHIEBER,AUFNAHME	968 299 8
176	44		SCHIEBER,RUECKLAUF	968 300 4
177	46		SCHIEBER,WIEDERGABE	968 301 2
178	47		SCHIEBER,SCHNELLVORLAUF	968 302 0
179	49		PROFILFEDER	968 303 8
180	50		GUMMI,BREMSE	968 304 6
181	51		AUTOSTOPRASTHEBEL	968 156 0
182	52		FEDER,AUTOSTOP	968 305 3
183	53		FUEHLER,AUTOSTOP	968 306 1
184	56		FUEHLERARM A	968 307 9
185	57		FUEHLERARM B	968 308 7
186	58		FUEHLERARM C	968 309 5
187	59		PROFILFEDER	968 310 3
188	61		SCHNECKENRAD	968 311 1
189	63		HEBEL,STOP	968 312 9
190	66		SCHALTSCHIEBER	968 313 7
191	67		FEDER	968 314 5
192	68		SCHIEBER	985 419 1
193	71		ZAHNRAD	985 444 9
194	72		PROFILFEDER	968 316 0
195	73		STARTHEBEL	985 420 9
196	74		KUPPLUNG KOMPL.	968 126 3
197	75		PROFILFEDER	968 318 6
198	79		SCHWUNGRAD	968 158 6
199	80		ZAHNRAD,SCHNELLVORL.	968 159 4
200	83		FLACHRIEMEN	968 160 2
201	84		RIEMEN	968 161 0
202	85		RIEMEN	968 162 8
203	88		SCHWINGRADLAGER,HINTEN	968 319 4
204	89		HEBEL,AUFNAHME	968 320 2
205	91		TASTENSCHIEBER	968 321 0
206	93		VERRIEGELUNGSSCHIENE	968 322 8
207	111		MOTOR EG510ED2B	967 514 1
208	112		MOTOR-PULLEY	967 515 8
209	113		A/W KOPF	985 421 7
210	114		LOESCH-KOPF H 5321302	967 517 4
211	116		SCHLIESSNASE,CASS.DECKEL	968 323 6
212	117		PROFILFEDER	968 324 4
213	118		BLATTFEDERSCHALTER	968 163 6
214	119		BLATTFEDERSCHALTER	968 164 4
215	120		SCHALTHEBEL	968 325 1
216	121		BLATTFEDERSCHALTER	968 165 1
217	122		BLATTFEDERSCHALTER	985 422 5
218	123		STARTPLATTE	985 423 3
219	130		ABDECKPLATTE	968 166 9
220	132		CASS.SCHACHT	968 167 7
221	133		BLATTFEDER,CASS.ANDRUCK	968 326 9
222	134		PROFILFEDER,CASS.FACH	968 327 7
223	135		DAEMPFER	968 168 5
224	136		RIEMEN FUER ZAEHLWERK	985 424 1
225	136A		RIEMEN FUER ZAEHLWERK	985 446 4
226				
227			PLATTENSPIELER :	
228				
229			MAGNETSYSTEM AT 72K CN 5225	969 450 6
230			DIAMANTNADEL ATN 72 CN 5225	969 451 4
231			TONKOPFTRAEGER OHNE SYSTEM	954 095 6
232			GEGENGEWICHT	985 443 1
233				
234	6		LAGER FUER TELLERACHSE	985 425 8
235	13	A	KURVENRAD KPL.	965 201 7
236	22	A	FEDER	950 590 0
237	25	A	KNOPF FUER ANTISKATING	965 216 5
238	30	A	ABDRAENGSTANGE	950 586 8
239	31	A	WANNE FUER AEDRAENGSTANGE	950 587 6
240	34		SCHALTARM	985 426 6
241	35		FEDER	985 427 4
242	36	A	FUNKTIONSPLATTE	950 589 2
243	45		NETZSCHALTER	947 861 1
244	63		ABDECKUNG FUER KNOPF 33/45	985 428 2
245	64		KNOPF	985 429 0
246	65		KULISSE 33/45	985 430 8
247	68		HEBEL 33/45	985 431 6
248	69		ABDECKUNG FUER CUT (START)	985 432 4
249	70		HEBEL FUER SCHALTSTANGE	985 433 2
250	71		SCHALTSANGE	985 434 0
251	72		TONARMSTUETZE	985 435 7
252	81		LIFTARM	985 436 5
253	85		TONARM	985 437 3
254	88		SCHALTARM	985 438 1
255	93		MOTOR	965 220 7
256	97	A	MOTORPULLY	965 221 5
257	103	A	SPIELERACHSE	968 377 2

ZEILE	POSITION	SYM	BEZEICHNUNG	ET-NUMMER
258	104		STOPPEN FUER TELLERLAGER	985 445 6
259	105		PLATTENTELLER	985 439 9
260	106		RIEMEN	948 272 0
261	107		TELLERBELAG	985 440 7
262	108		PUCK REDUZIERST	177 551 9
263	112		ABDECKUNG FUER TONARM	985 441 5
264	114		LIFTHEBEL	985 442 3
265	115	A	KNOPF FUER LIFTHEBEL	950 616 3

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